

Claims:

1. Method for illumination, wherein a light source is used, said light source is an electroluminescent light source that comprises at least two luminescent layers, and the colour of light produced in at least two luminescent layers is substantially the same when the light is emitted from the light source.
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2. The method according to claim 1, wherein in at least two luminescent layers the same agent is used as light emitting agent.
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3. The method according to claim 1, wherein at least the light produced in the first luminescent layer is directed through the second luminescent layer, that at least said second luminescent layer generates a change in the colour generated by the first luminescent layer, wherein at least in said first luminescent layer a conversion agent is used, by means of which the colour of the light generated by said first luminescent layer changes after penetrating said second luminescent layer, into substantially the same as the colour that can be generated in said second luminescent layer.
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4. The method according to claim 1, wherein the light generated by the light source is used for illuminating a display.
- 25 5. The method according to claim 1, wherein the light generated by the light source is used for illuminating a keyboard.
6. The method according to claim 1, wherein the intensity of the light generated by the light source is adjusted using one or several luminescent layers in illumination.
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7. The method according to claim 6, wherein the illumination around the portable electronic device is determined, and the adjustment of the light intensity is performed automatically on the basis of the illumination of the surrounding space.
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8. A portable electronic device comprising a light source, wherein the light source is an electroluminescent light source comprising at least two luminescent layers, and that at least two luminescent layers are arranged to emit light of substantially the same colour from the light source.

9. The portable electronic device according to claim 8, wherein in at least two luminescent layers the same agent has been used as a light emitting agent.

10. The portable electronic device according to claim 9, wherein said at least two luminescent layers are made of phosphorus.

11. The portable electronic device according to claim 8, comprising a display, wherein the light source is arranged to illuminate the display.

12. The portable electronic device according to claim 8, comprising a keyboard, wherein the light source is arranged to illuminate the keyboard.

13. The portable electronic device according to claim 8, wherein it is a wireless communication device.

14. An electroluminescent light source comprising at least a first luminescent layer, wherein the electroluminescent light source further comprises at least a second luminescent layer and that at least two luminescent layers are arranged to emit light of substantially the same colour from the electroluminescent light source.

15. The electroluminescent light source according to claim 14, characterized in that it comprises at least a first (L8) and a second electrode layer (L10), a background electrode (L2), and means (V1, V2, V3) for conducting operating voltage to said background electrode (L2) and to said first (L8) and second electrode layer (L10), that said first luminescent layer (L7) is placed between said first electrode layer (L8) and said background electrode (L2), and that said second

